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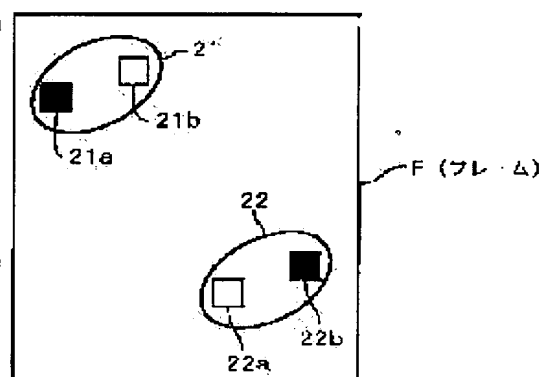
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(54) ELECTRONIC WATERMARKING DEVICE FOR MOVING PICTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electronic watermarking device for a moving picture capable of simply and accurately determining whether watermarking data are embedded while the data are in a compressed form such as MPEG.

SOLUTION: Bit information is comprised of a pair of different blocks. When embedding bit information 21 in an image frame F, for example, the bit information 21 is comprised of a pair of blocks 21a, 21b in which watermark data of different two portions are embedded, or a pair of a block 21a in which the watermark data are embedded and a block 21b in which a watermark data are not embedded. On the other hand, when detecting the bit information 21, it is detected whether the bit information 21 embedded in the frame F is 1 or 0 by comparing between the sum of a set of DCT coefficients corresponding to the block 21a and the sum of a set of DCT coefficients corresponding to the block 21b. For bit information 22, embedding and detection are also executed in a similar manner.



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